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S. A. Abramov, K. Yu. Kvansenko

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Refik Molva, Alain Pannetra

August 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 3Full text available:  [pdf\(191.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we propose a new framework for multicast security based on distributed computation of security transforms by intermediate nodes. The involvement of intermediate nodes in the security process causes a new type of dependency between group membership and the topology of the multicast network. Thanks to this dependency, the containment of security exposures in large multicast groups is ensured. The framework also ensures both the scalability for large dynamic groups and the secu ...

Keywords: Diffie-Hellman, RSA, confidentiality, group communications, key distribution, scalability

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D. Towsley, K. M. Chandy, J. C. Browne

October 1978 **Communications of the ACM**, Volume 21 Issue 10Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Approximate queueing models for internal parallel processing by individual programs in a multiprogrammed system are developed in this paper. The solution technique is developed by network decomposition. The models are formulated in terms of CPU:I/O and I/O:I/O overlap and applied to the analysis of these problems. The percentage performance improvement from CPU:I/O overlap is found to be greatest for systems which are in approximate CPU:I/O

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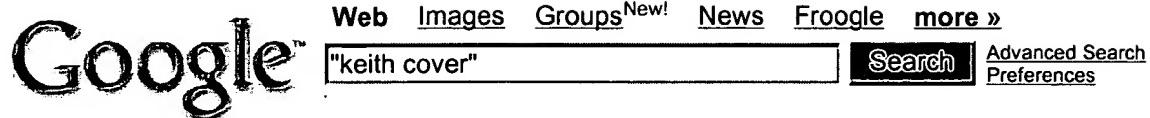
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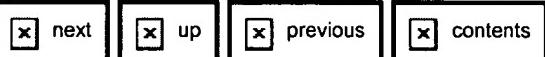
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Acknowledgments

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I am grateful to Don Paty, Andrew Riddehough, Keith Cover, Brenda Rhodes, and Torre Zuk of the University of British Columbia MS/MRI Study Group for supplying the MRI data used in this research. I am also indebted to Terry Arden and Joseph Poon of Logical Vision Ltd. for donating WiT, the visual programming environment used to implement my research software.

This research was supported in part by the Natural Sciences and Engineering Research Council of Canada, by MacDonald Dettwiler Ltd., and by Simon Fraser University.



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*Blair Mackiewich
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